

Research from the 2018/2019 Delta Science Proposal Solicitation

Dylan Stern

Delta Science Program

Delta Stewardship Council

Dr. John Callaway

Delta Lead Scientist

Hildie Spautz

California Department of Fish and Wildlife

Mario Manzo

U.S. Bureau of Reclamation

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DELTA STEWARDSHIP COUNCIL

Funding Desert

Last time it rained was 2010

What to do?

Science Action Agenda



Human
Dimensions



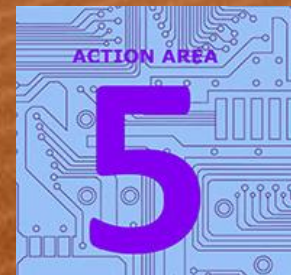
Science
Synthesis



Habitat
Restoration



Stressors,
species and
communities



Monitoring, data
management,
and modeling

The 2018/2019 Delta Science Proposal Solicitation

Announced at Sept. 2018 Bay Delta Science Conference

Pooled funds available: approx. **\$17 million**

Council: \$7.8M USBR: \$1.8M CDFW: \$7.3M

62 proposals, requesting **\$43.5 million**



California Department of Fish and Wildlife: Proposition 1

- Proposition 1: Water Quality, Supply, and Infrastructure Improvement Act of 2014
 - Total funding available is \$327M over 10 years, statewide
- Proposition 1: Delta Water Quality and Ecosystem Restoration Program
 - \$7.49M available in 2019
- 43 science proposals eligible for CDFW Prop 1 funding
- Total amount requested: \$27 million

Proposition 1 Conservation Projects

Additional CDFW Proposal Solicitation Notice for conservation projects:

- ❖ Improve Water Quality – for water quality projects that improve ecosystem condition and provide other public benefits
 - ❖ Improve Habitats in the Delta – for projects that contribute to the objectives of EcoRestore and the Delta Plan
 - ❖ Planning for Multi-Benefit Restoration Through Regional Partnerships – to implement the Delta Conservation Framework
- CDFW received 2 proposals requesting \$2 million
 - CDFW would like to fund more conservation projects

U.S. Bureau of Reclamation

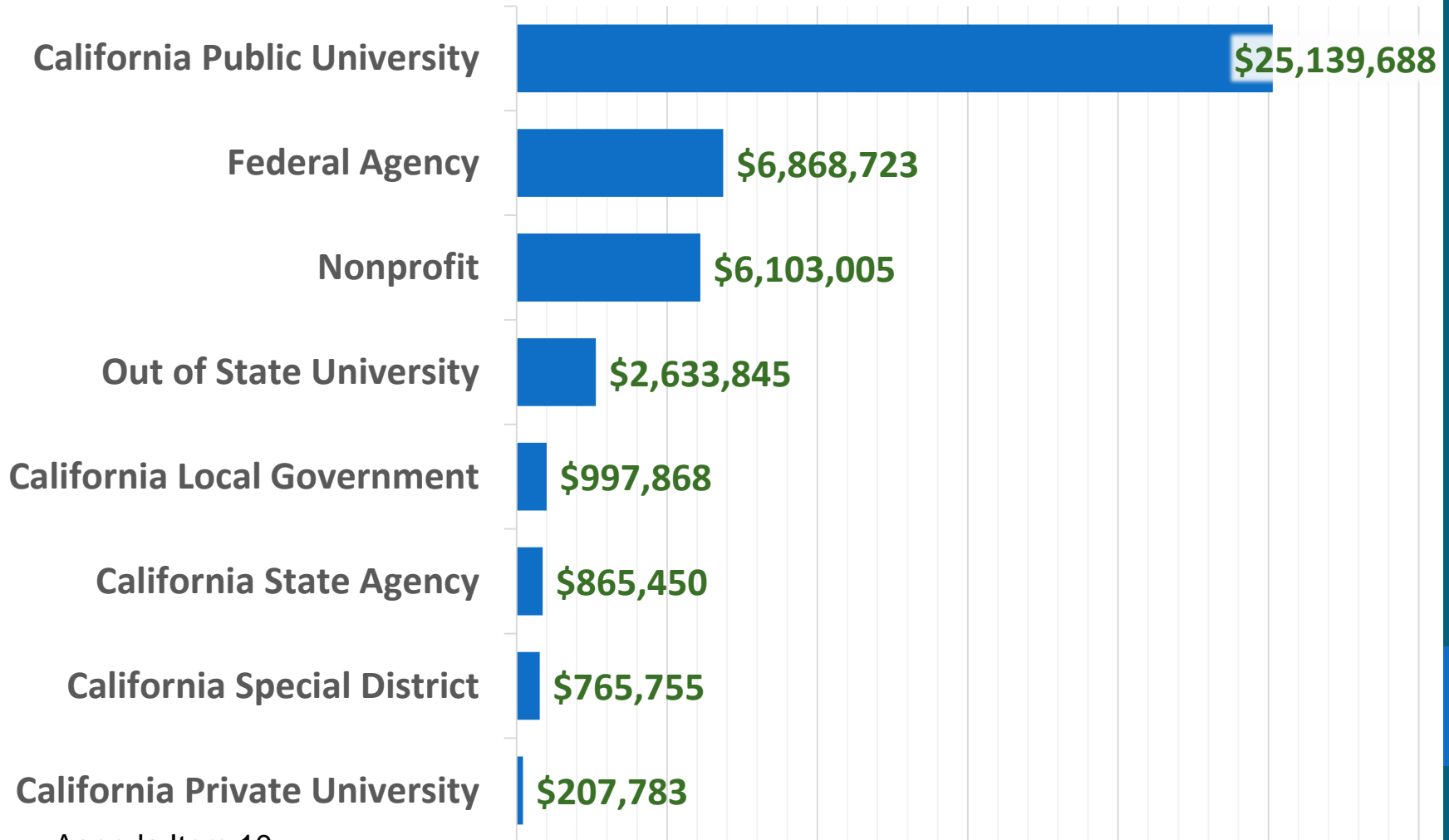
Collaboration Efforts

- Collaborative Science and Adaptive Management Program: \$2 million identified in 2018
- Reclamation participated in Delta Science Program's collaborative scoping process for Science Action Agenda and Delta Science Plan
 - Management Relevant Priority Actions
 - Competitive Solicitation Process
- Leveraged 18/19 Delta Science Solicitation to fully fund 3 projects and contribute to awarding a 4th project
- Reclamation would like to fund more science projects aligned with collaboratively developed Science Plans and resulting Science Action Agendas

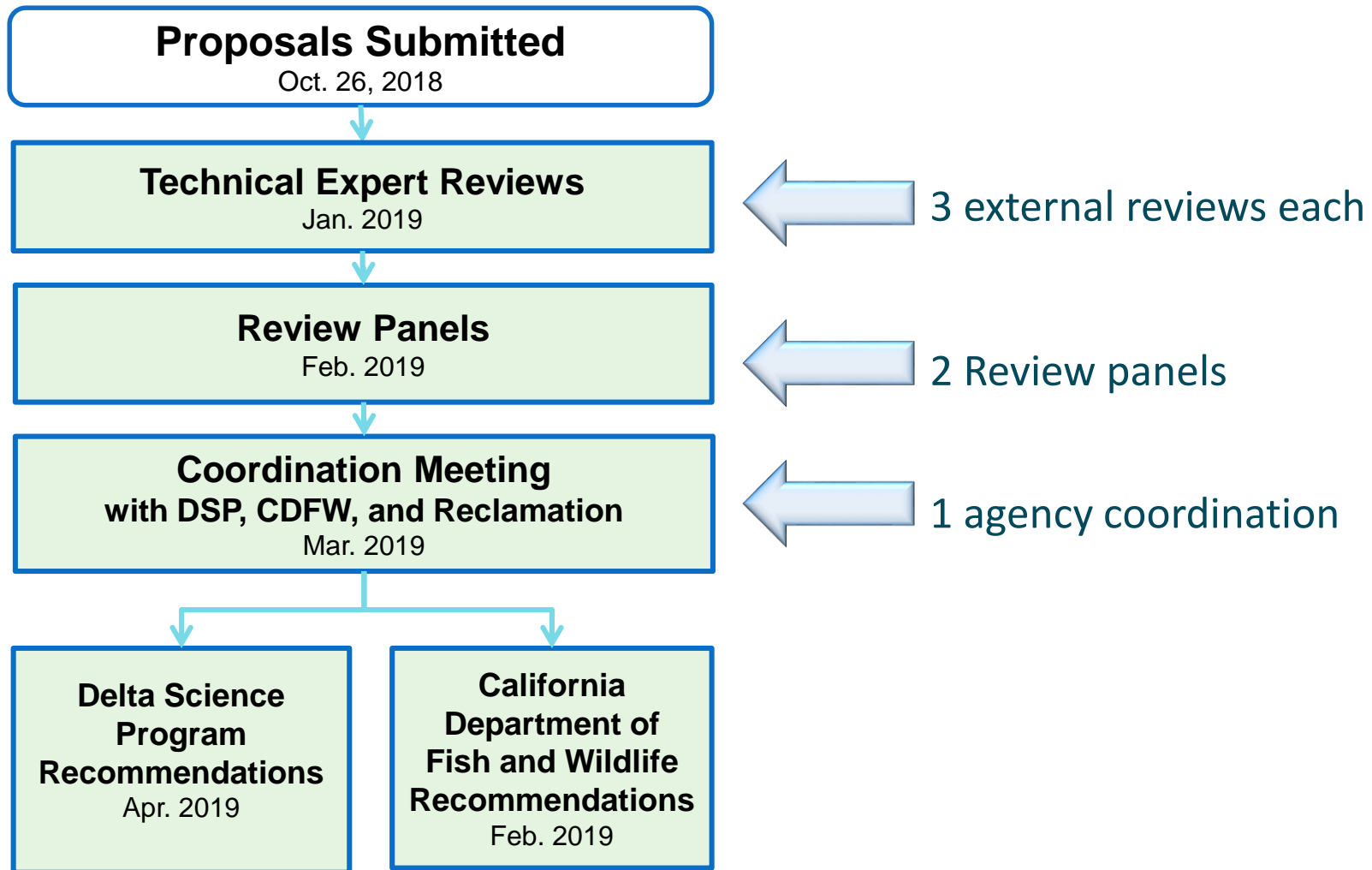
Who submitted proposals?

62 total proposals submitted

\$43.5M total



Coordinated Review Process



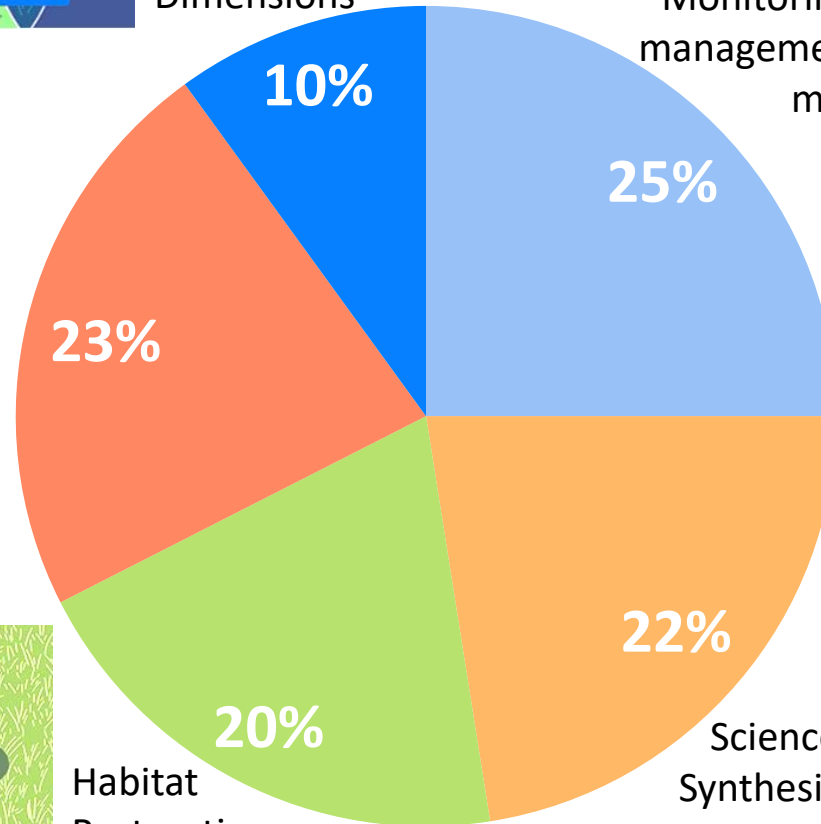
Science Action Agenda Areas



Human
Dimensions



Monitoring, data
management, and
modeling



Stressors,
species, and
communities



Habitat
Restoration



Science
Synthesis

15 projects **22** contracts **~\$9.6M** total

What topics?



Restoration



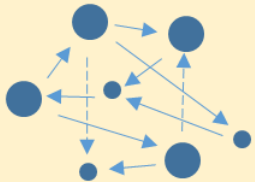
Levees



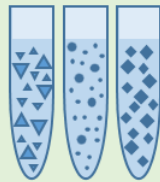
Recreation



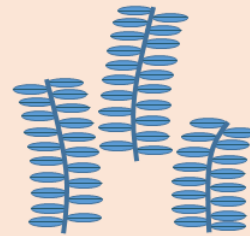
Climate Change



Food Webs



Contaminants

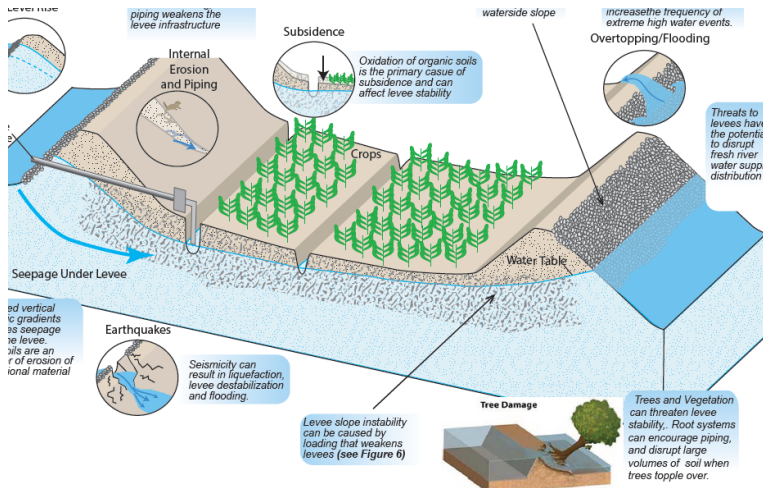


Aquatic Vegetation



Native Fishes

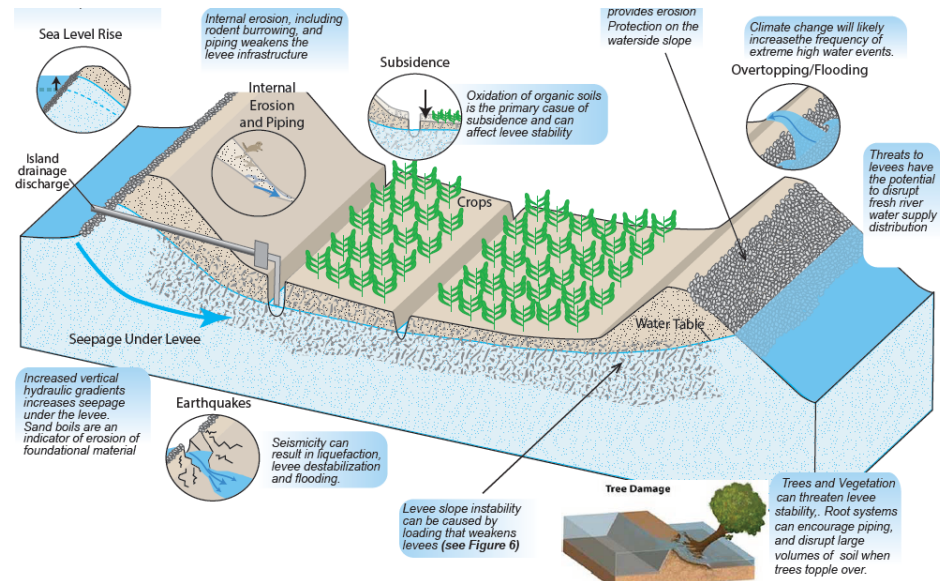
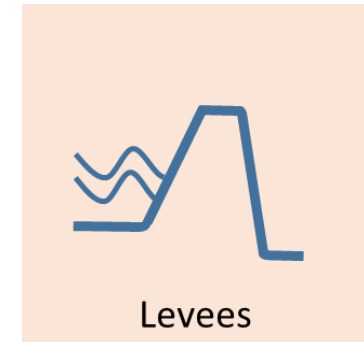
Four Example Projects



Next generation multi-hazard levee risk assessment

Scott Brandenberg

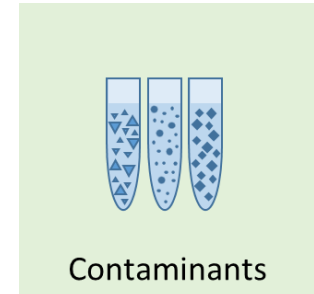
University of California, Los Angeles



Impact of temperature and contaminants on Chinook salmon survival: a multi-stressor approach

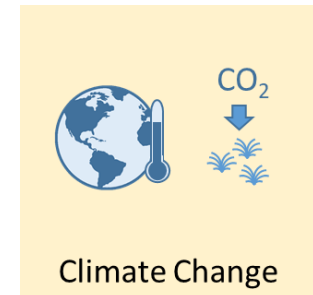
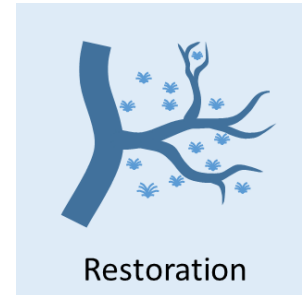
Joseph Dietrich

NOAA Northwest Fisheries Science Center



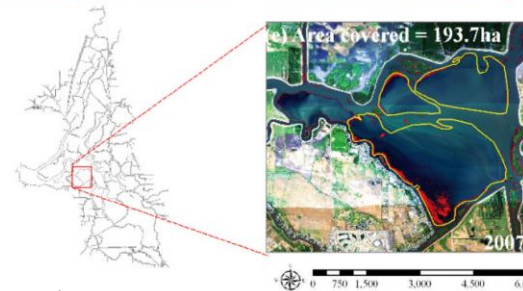
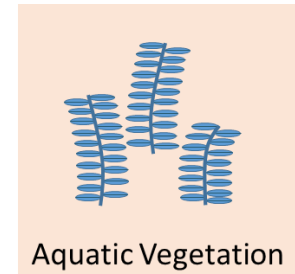
Tidal wetland restoration in the Bay-Delta Region: developing tools to measure carbon sequestration, subsidence reversal, and climate resilience

Patty Oikawa
California State University, East Bay



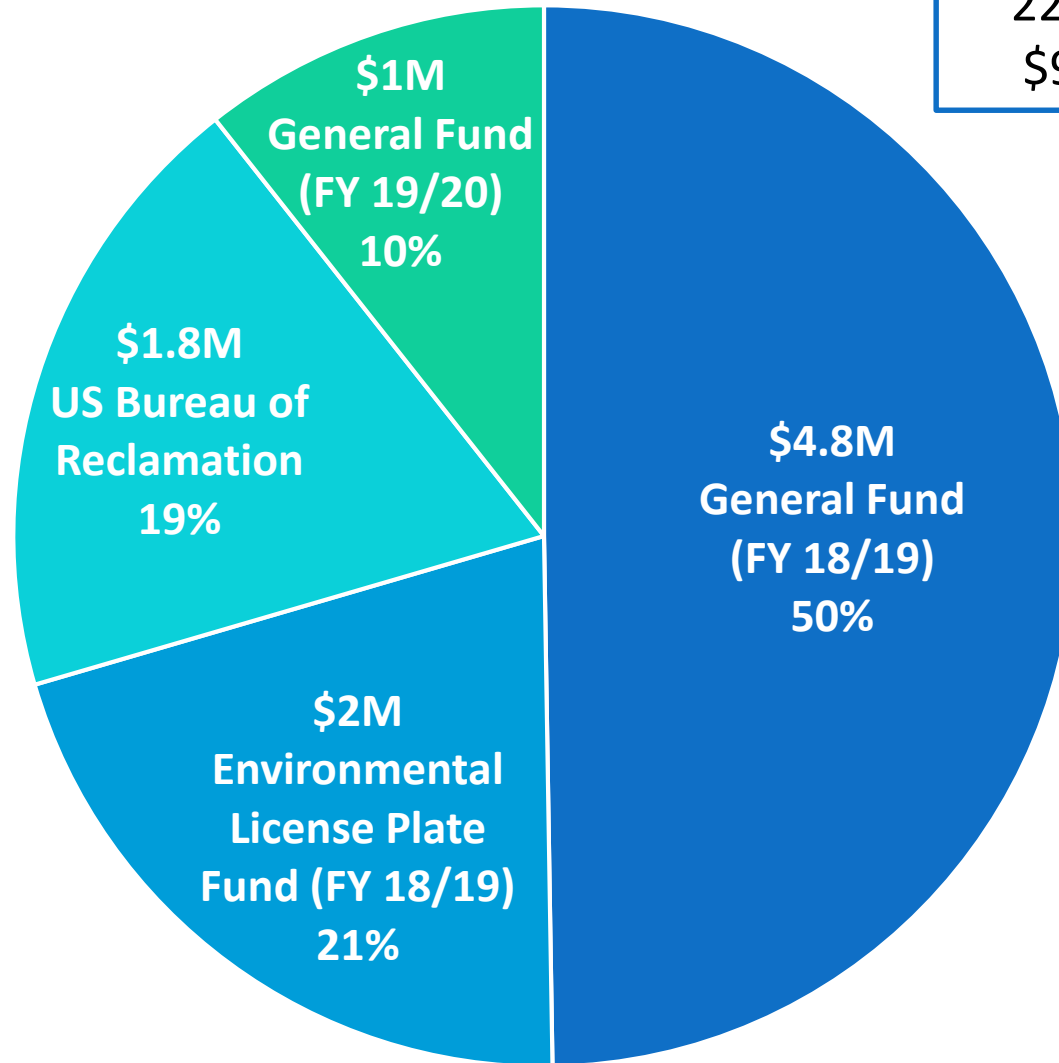
Low-cost satellite remote sensing of the Sacramento-San Joaquin Delta to enhance mapping for invasive and native aquatic vegetation

Susan Ustin
University of California, Davis



Santos et al. 2009

Funding Sources



15 projects
22 contracts
\$9,645,959

Questions?

